



DEPARTMENT OF THE AIR FORCE
59TH MEDICAL WING (AETC)
JOINT BASE SAN ANTONIO - LACKLAND TEXAS

7 FEB 2016

MEMORANDUM FOR 959 CSPS
ATTN: CAPT SARAH NELIN

FROM: 59 MDW/SGVU

SUBJECT: Professional Presentation Approval

1. Your paper, entitled **Implementation of an Integrated Orthopedic Curriculum to Increase Clinical and Procedural Competency Amongst Pediatric Residents** presented at/published to **APPD Conference, Anaheim, CA, 5-8 April 2017** in accordance with MDWI 41-108, has been approved and assigned local file #**17062**.
2. Pertinent biographic information (name of author(s), title, etc.) has been entered into our computer file. Please advise us (by phone or mail) that your presentation was given. At that time, we will need the date (month, day and year) along with the location of your presentation. It is important to update this information so that we can provide quality support for you, your department, and the Medical Center commander. This information is used to document the scholarly activities of our professional staff and students, which is an essential component of Wilford Hall Ambulatory Surgical Center (WHASC) internship and residency programs.
3. Please know that if you are a Graduate Health Sciences Education student and your department has told you they cannot fund your publication, the 59th Clinical Research Division may pay for your basic journal publishing charges (to include costs for tables and black and white photos). We cannot pay for reprints. If you are 59 MDW staff member, we can forward your request for funds to the designated wing POC.
4. Congratulations, and thank you for your efforts and time. Your contributions are vital to the medical mission. We look forward to assisting you in your future publication/presentation efforts.

Linda Steel-Goodwin

LINDA STEEL-GOODWIN, Col, USAF, BSC
Director, Clinical Investigations & Research Support

PROCESSING OF PROFESSIONAL MEDICAL RESEARCH/TECHNICAL PUBLICATIONS/PRESENTATIONS

INSTRUCTIONS

USE ONLY THE MOST CURRENT 59 MDW FORM 3039 LOCATED ON AF E-PUBLISHING

1. The author must complete page two of this form:
 - a. In Section 2, add the funding source for your study [e.g., 59 MDW CRD Graduate Health Sciences Education (GHSE) (SG5 O&M); SG5 R&D; Tri-Service Nursing Research Program (TSNRP); Defense Medical Research & Development Program (DMRDP); NIH; Congressionally Directed Medical Research Program (CDMRP); Grants; etc.]
 - b. In Section 2, there may be funding available for journal costs, if your department is not paying for figures, tables or photographs for your publication. Please state "YES" or "NO" in Section 2 of the form, if you need publication funding support.
2. Print your name, rank/grade, sign and date the form in the author's signature block or use an electronic signature.
3. Attach a copy of the 59 MDW IRB or IACUC approval letter for the research related study. If this is a technical publication/presentation, state the type (e.g. case report, QA/QI study, program evaluation study, informational report/briefing, etc.) in the "Protocol Title" box.
4. Attach a copy of your abstract, paper, poster and other supporting documentation.
5. Save and forward, via email, the processing form and all supporting documentation to your unit commander, program director or immediate supervisor for review/approval.
6. On page 2, have either your unit commander, program director or immediate supervisor:
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9. Once your manuscript, poster or presentation has been approved for a one-time public release, you may proceed with your publication or presentation submission activities, as stated on this form. **Note:** For each new release of medical research or technical information as a publication/presentation, a new 59 MDW Form 3039 must be submitted for review and approval.
10. If your manuscript is accepted for scientific publication, please contact the 59 CRD/Publications and Presentations Section at 292-7141. This information is reported to the 59 MDW/CC. All medical research or technical information publications/presentations must be reported to the Defense Technical Information Center (DTIC). See 59 MDWI 41-108, *Presentation and Publication of Medical and Technical Papers*, for additional information.
11. The Joint Ethics Regulation (JER) DoD 5500.07-R, *Standards of Conduct*, provides standards of ethical conduct for all DoD personnel and their interactions with other non-DoD entities, organizations, societies, conferences, etc. Part of the Form 3039 review and approval process includes a legal ethics review to address any potential conflicts related to DoD personnel participating in non-DoD sponsored conferences, professional meetings, publication/presentation disclosures to domestic and foreign audiences. DoD personnel accepting non-DoD contributions, awards, honoraria, gifts, etc. The specific circumstances for your presentation will determine whether a legal review is necessary. **If you (as the author) or your supervisor check "NO" in block 17 of the Form 3039, your research or technical documents will not be forwarded to the 502 ISG/JAC legal office for an ethics review.** To assist you in making this decision about whether to request a legal review, the following examples are provided as a guideline:

For presentations before professional societies and like organizations, the 59 MDW Public Affairs Office (PAO) will provide the needed review to ensure proper disclaimers are included and the subject matter of the presentation does not create any cause for DoD concern.

If the sponsor of a conference or meeting is a DoD entity, an ethics review of your presentation is not required, since the DoD entity is responsible to obtain all approvals for the event.

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If your travel is being paid for (in whole or in part) by a non-Federal entity (someone other than the government), a legal ethics review is needed. These requests for legal review should come through the 59 MDW Gifts and Grants Office to 502 ISG/JAC.

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NOTE: All abstracts, papers, posters, etc., should contain the following disclaimer statement:

"The views expressed are those of the [author(s)] [presenter(s)] and do not reflect the official views or policy of the Department of Defense or its Components"

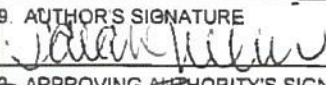
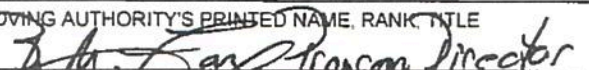
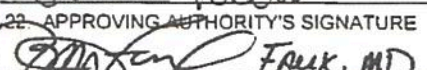
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"The voluntary, fully informed consent of the subjects used in this research was obtained as required by 32 CFR 219 and DODI 3216.02_AFI 40-402."

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"The experiments reported herein were conducted according to the principles set forth in the National Institute of Health Publication No. 80-23, Guide for the Care and Use of Laboratory Animals and the Animal Welfare Act of 1966, as amended."

PROCESSING OF PROFESSIONAL MEDICAL RESEARCH/TECHNICAL PUBLICATIONS/PRESENTATIONS

1. TO: CLINICAL RESEARCH	2. FROM: (Author's Name, Rank, Grade, Office Symbol) Sarah Nelin, Capt, O3, 959 CSPS	3. GME/GHSE STUDENT: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	4. PROTOCOL NUMBER:
5. PROTOCOL TITLE: (NOTE: For each new release of medical research or technical information as a publication/presentation, a new 59 MDW Form 3039 must be submitted for review and approval.)			
6. TITLE OF MATERIAL TO BE PUBLISHED OR PRESENTED Implementation of an Integrated Orthopedic Curriculum to Increase Clinical and Procedural Competency amongst Pediatric Residents			
7. FUNDING RECEIVED FOR THIS STUDY? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO FUNDING SOURCE:			
8. DO YOU NEED FUNDING SUPPORT FOR PUBLICATION PURPOSES <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			
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16. AUTHORSHIP AND CO-AUTHOR(S) List in the order they will appear in the manuscript			
LAST NAME, FIRST NAME AND M.I.	GRADE/RANK	SQUADRON/GROUP/OFFICE SYMBOL	INSTITUTION (If not 59 MDW)
a. Primary/Corresponding Author Nelin, Sarah C	O3/Capt	959 CSPS	SAUSHEC
b. Jones, Taneisha S	O3/Capt	959 CSPS	SAUSHEC
c. Beachler, Jason A	O3/Capt	959 CSPS	SAUSHEC
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21. APPROVING AUTHORITY'S PRINTED NAME, RANK, TITLE  Jonathan Falk, Director		22. APPROVING AUTHORITY'S SIGNATURE  FALK, MD	23. DATE 20 Jan 17

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26. DATE REVIEWED 7 Feb 2017	27. DATE FORWARDED TO 502 ISG/JAC	
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29. COMMENTS <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> DISAPPROVED The article is approved.		
30. PRINTED NAME, RANK/GRADE, TITLE OF REVIEWER Rocky Calcote, PhD, Clinical Research Administrator	31. REVIEWER SIGNATURE CALCOTE.ROCKY.D.117824 5844 <small>Digitally signed by CALCOTE.ROCKY.D.1178245844 DN: c=US, o=U.S. Government, ou=DoD, ou=PR, ou=USAF, cn=CALCOTE.ROCKY.D.1178245844 Date: 2017.02.07 13:44:04 -0600</small>	32. DATE
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42. PRINTED NAME, RANK/GRADE, TITLE OF REVIEWER Kevin Iinuma, SSgt/E-5, 59 MDW Public Affairs	43. REVIEWER SIGNATURE IINUMA.KEVIN.MITSUGU.1 296227613 <small>Digitally signed by IINUMA.KEVIN.MITSUGU.1296227613 DN: c=US, o=U.S. Government, ou=DoD, ou=PR, ou=USAF, cn=IINUMA.KEVIN.MITSUGU.1296227613 Date: 2017.02.07 14:28:42 -0600</small>	44. DATE February 7, 2017
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Implementation of an Integrated Orthopedic Curriculum to Increase Clinical and Procedural Competency amongst Pediatric Residents

Sarah Nelin MD, Taneishia Jones, MD, Jason Beachler MD, Michelle Lawson MD, Bryan Lawson, MD,
Matthew Schmitz MD, Jeremy Rush MD, San Antonio Uniformed Services Health Education Consortium,
JBSA Ft Sam Houston, TX

Background: Primary care physicians are faced with a variety of diagnoses daily, and it is well-known that musculoskeletal (MSK) complaints are among the most common. Multiple studies have shown that amongst primary care pediatricians, there are deficiencies in orthopedic and MSK knowledge as well as discomfort with orthopedic procedures. Within our residency program, there were self-reported deficiencies in several orthopedic procedures including splinting and casting.

Aim Statement: We planned to increase the MSK knowledge of our pediatric residents through implementation of an integrated orthopedic curriculum with a formalized evaluation process.

Methods: We developed a curriculum to include 3 didactic sessions between a senior orthopedic resident and a junior pediatric resident (PL-2) over a 4 week period. Each session consisted of a lecture-based review of basic MSK knowledge followed by clinical patient encounters in the Pediatric Acute Fracture Clinic. During the patient encounters the pediatric resident was expected to evaluate the patient, generate an assessment of the patient's injury, develop a treatment plan and then present the information to the orthopedic resident. Pre-participation and post-participation written assessments and surveys were obtained.

Results: From Jan2015 through present, 12 pediatric residents have completed our integrated orthopedics curriculum. Pediatric resident MSK knowledge improved dramatically on pre- and post-participation assessments within the first 3 months showing a mean improvement of 15% in test scores (individual score improvements ranging from 10% to 23%).

Conclusions: Incorporating this curriculum has contributed to an increase in MSK knowledge amongst our pediatric residents demonstrated by comparison of objective pre-and post-participation assessments. Additional data is being collected to further evaluate improvement, and additional PDSA cycles are planned to assess for similar effects on procedural competencies.